VFC Data Logger Rollout

Justin Lam RN Noel Jose RN

Berlinger Data logger



VFC Data loggers

- Importance
- Distribution Plan
- Support



Importance and benefit of Data Loggers

- Continuous monitoring
 - Records more than twice a day
 - Records on weekends
 - Stores temperatures
- Maintain cold chain
 - Providers are last link in cold chain
 - Be the strongest link
- CDC recommendation
 - Current recommendation from the CDC as best practice.
 - Requirement if issued from DOH
- Printout PDF
 - Easier reporting to DOH if excursion occurs
 - Accurate reporting

Distribution Plan

- Data loggers will be provided to VFC providers during 2015 and 2016 compliance site visits.
- VFC field reviewer to setup for you
- Additional training to be done during visit
- Replacing digital thermometers given to you in 2013 and 2014.
 - Keep those as backup units (new CDC requirement)

Use of data logger

- Use the same way as the digital thermometer
- Fill in temperature logs as usual, but take reading displayed on data logger
 - Twice a day
 - Beginning and end of each work day
 - Staff initial
 - Exact time
- Report can be used to evaluate viability if an excursion takes place

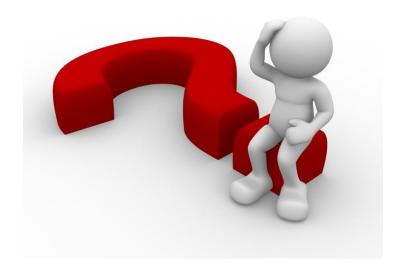
Support after install

- Contact Noel or Justin for sul
- Noel Jose RN
 - **-** 808-586-8318
 - Noel.jose@doh.Hawaii.gov
- Justin Lam RN
 - **–** 808-586-4585
 - Justin.lam@doh.Hawaii.gov



- Additional training videos available online
 - Youtube
 - Berlinger website

Questions?





Installing Fridge-tag® 2





Meeting Goals



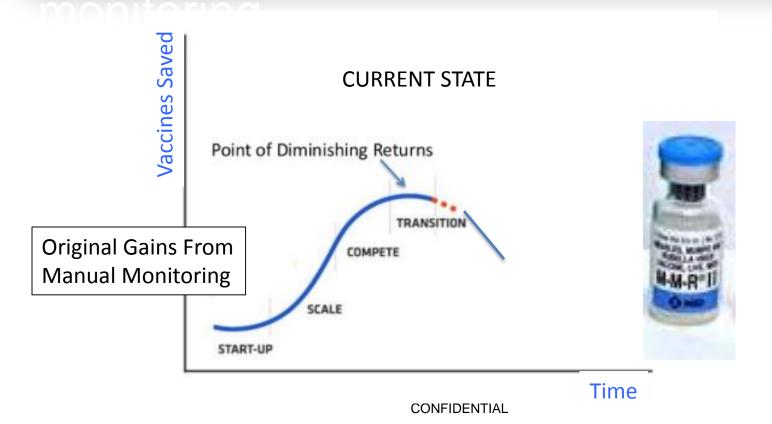




- •Why data loggers?
 - •Can they save time & vaccines?
- •Why condition probe?
 - Avoid the most common failure
- •How to get started?
 - Step-by-step guide
- How to read the screen & address an alarm?
- •What to do with a reports?



Evolution of vaccine temperature





Evolution of vaccine temperature

Vaccine(s)	Vaccine Storage Temperature	Diluent Storage Temperature	When OVEREXPOSED TO
Diphtheria, tetanus, pertussis-containing vaccines (DTaP, DT, Tdap, Td)	35°F-46°F (2°-8°C) Do not freeze.		Hi & LO Temperatures Vaccines Do Not: Taste Smell
Hepatitis A	35°F-46°F (2°-8°C) Do not freeze		• Look • DIFFERENT
	AFRE 400F (00 000)	William Trail and	DIFFERENT



Evolution of vaccine temperature

	Vaccine Storage Temperature	Diluent Storage Temperature	When OVEREXPOSED TO
		1000	Hi & LO Temperatures
	35°F-46°F (2°-8°C) Do not freeze.		Vaccines Do Not:
	Do not freeze.		• Taste
	2505 4005 (20 000)	ABI	• Smell
Hepatitis A	35°F-46°F (2°-8°C) Do not freeze	ATTECHED.	• Look
		Secure of	DIFFERENT
1	AFRE 400F (00 000)	M.M.P.II	



Evolution of vaccine temperature

ì		Vaccine Storage Temperature	Diluent Storage Temperature	When OVEREXPOSED TO
	35°F-46°F (2°-8°C) Do not freeze.		Hi & LO Temperatures Vaccines Do Not: Taste Smell	
Hepatitis A	Hepatitis A	35°F-46°F (2°-8°C) Do not freeze		• Look • DIFFERENT
	1	AFRE 400F (00 000)	B.M. Dell	

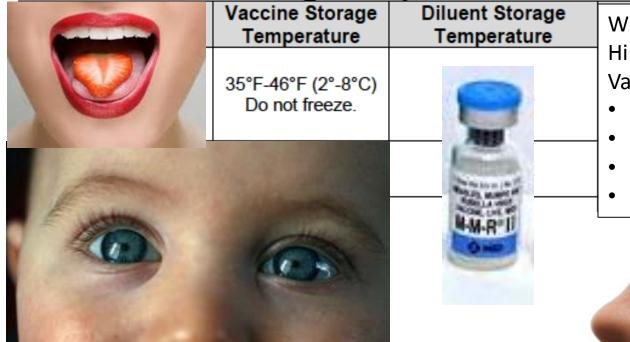




Evolution of vaccine temperature

Vaccine Storage Temperature Recommendations

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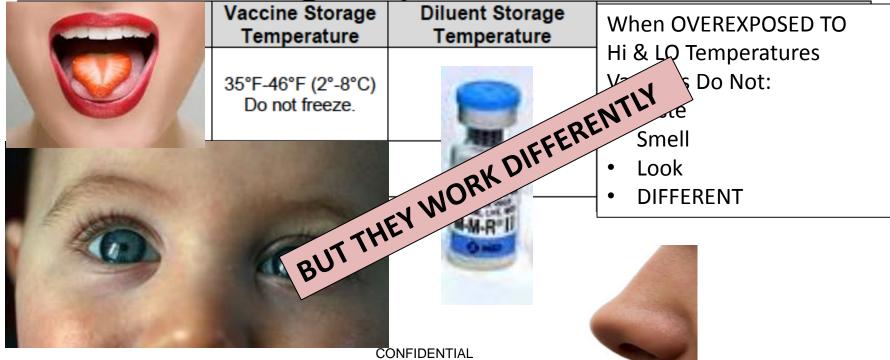
When OVEREXPOSED TO Hi & LO Temperatures Vaccines Do Not:

- Taste
- Smell
- Look
- DIFFERENT



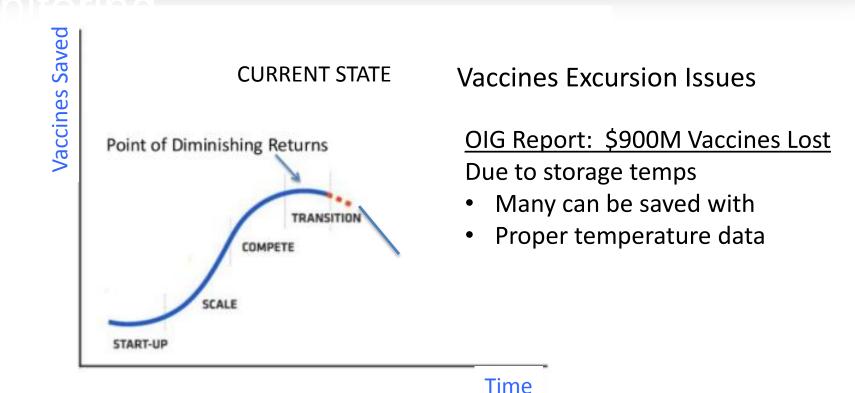


Evolution of vaccine temperature



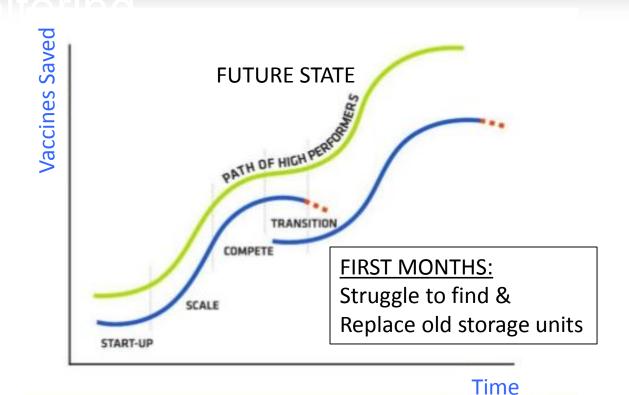


Evolution of vaccine temperature



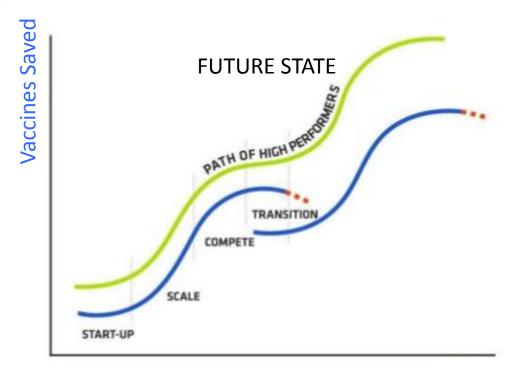


Evolution of vaccine temperature





Evolution of vaccine temperature



FUTURE GAINS:

- Save vaccines
- Avoid re-vaccination
- Reduce daily workload

Time



Improved Patient Health







Why Fridge-tag® 2?





Why Fridge-tag® 2?







CDC Recommendation & Fridge-tag® 2

CDC Recommendations	Fridge-tag® 2 Status	Comments
LED Display: current temp	YES	
LED Display: high & low temps	YES	30 days High/Low on screen
LED Display: Hi/Low Alarm status	YES	Alarm Status & Alarm checked status
Continuous Temp. Monitor (Minimum: 1 reading every 15 minutes)	YES	Every 1 minute 60 readings/hour 1440 reading/day FULL CONTINUOS
Memory: 4000 readings Est. 39 days @ 15 min.	YES	43,200 readings/mo 86,400 / 60 days FULL CONTINUOS
Device Stops or Memory is reset after download	YES	Memory can be erased upon download NOT Recommended
Operating range -20°C to +40°C	YES	-30°C to +50°C



CDC Recommendation & Fridge-tag® 2

CDC Recommendations	Fridge-tag® 2 Status	Comments
Download data via USB & standard computer	YES	NO Software No cradle No wire
Report: show alarm configurations; high & low temps & time outside of the high/low thresholds	YES	
Data export capability: Excel, CSV, Txt	YES	Device creates a PDF & Txt file now
Detachable temperature probe, liquid fill vial, 1m cable	YES	THIN – Ribbon wire fits between gasket
Track technicians reading temps. twice daily	YES	Use of READ button documented
Uncertainty: +/- 0.5°C	YES	
Resolution: +/- 1.0°C	YES	
Battery Life: 6 months	YES	24 months





- No Software = Ease of use
- Simple Report = Quick comprehension
- Useful Screen = 30 day snap shot
- Tracks Daily Readings = people & unit
- 2 Year Certificate of Accuracy = Save \$



Fridge-tag® 2: Activation

Critical Steps For Proper Start up & Use

- 1. Cool the vial with probe
- 2. Start the Fridge-tag® 2
- 3. Connect the probe to the unit
- 4. Correcting mistakes
- 5. Record 2x/day temp. checks
- 6. Download, store & send reports



Step 1: Cool the vial

Step #1: Cool the vial with Probe









Step 1: Cool the vial

Step #1: Cool the vial with Probe



It arrives @ Room Temp = 22°C



It will take 1 -2 hours

At 5º OR -18º C

For the vial temperature

To lower to the storage temp



Step 1: Install the vial

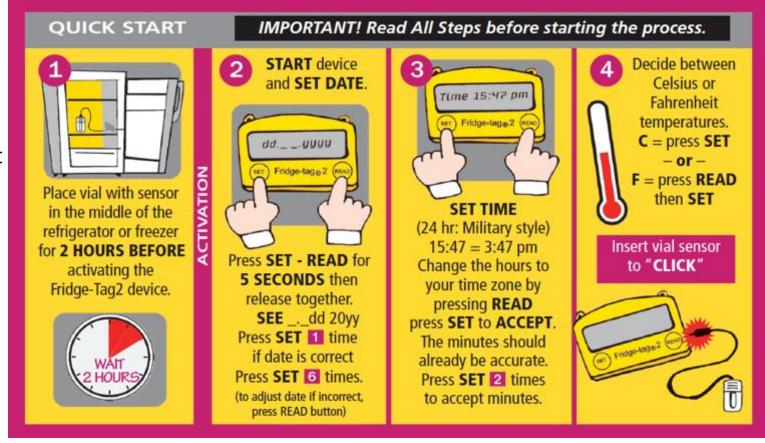
Step #1: Secure vial & wire for daily use





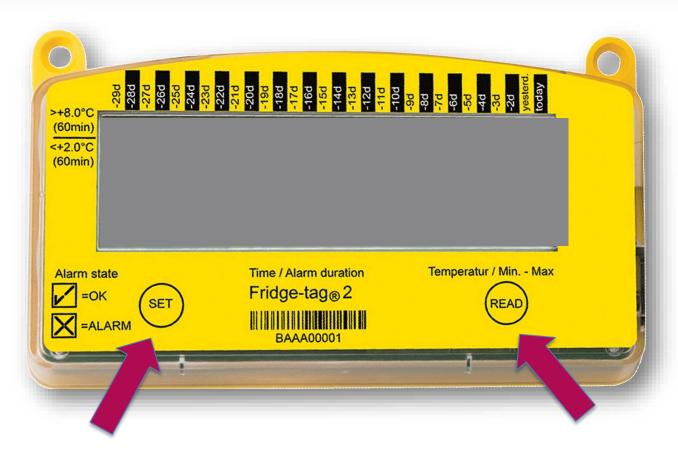
Step #2: Starting the data logger

New 2015:
Programmed in
USA date format





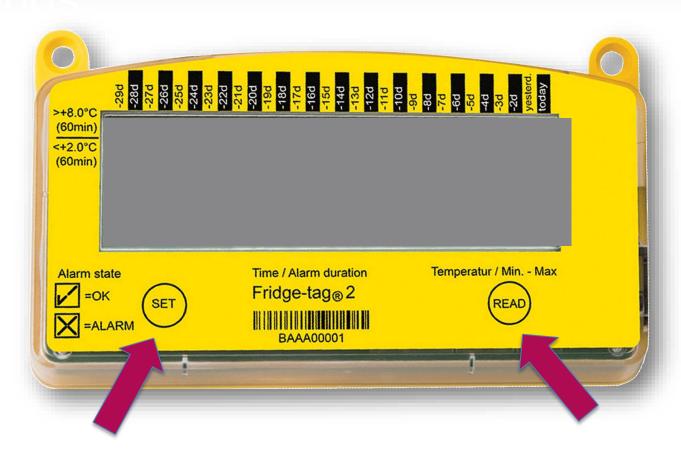
READ = scroll/change SET = set/accept





Press SET & READ simultaneously 4

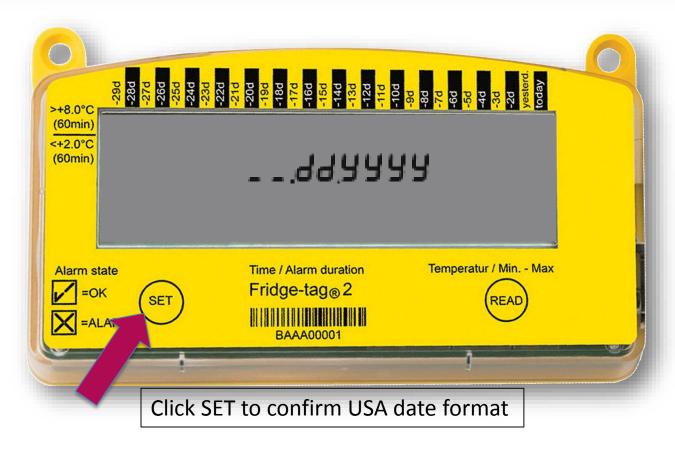
#1





Activation success:

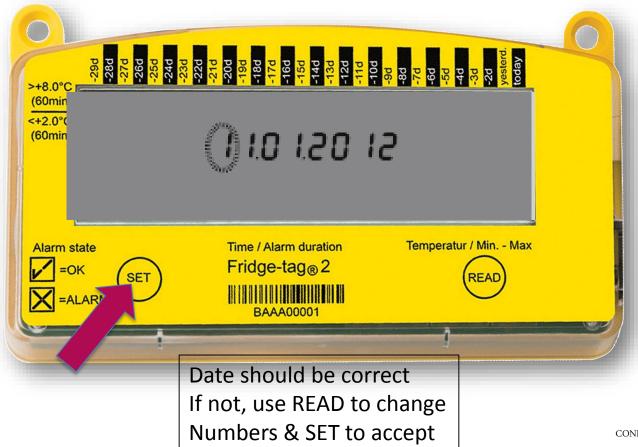
#2





Set USA date style: Press SET 6 times

#3





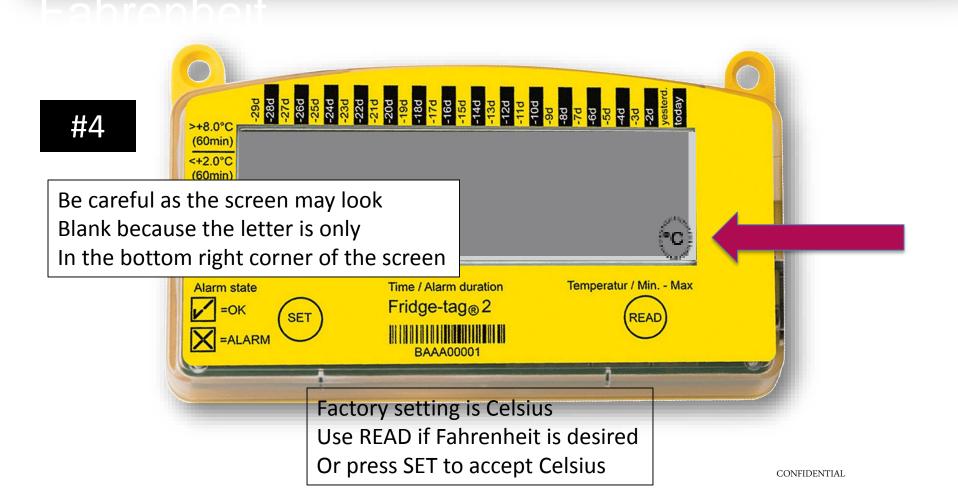
Set Time: SET to accept or READ to

#3





Set Read-out Type: Celsius or





Step 2: Start the data logger

Fully Activated Device:

READY TO USE





Step 3: Connect the vial

LASTLY

Listen for it to "click" in place BioSafe Glycol Vial



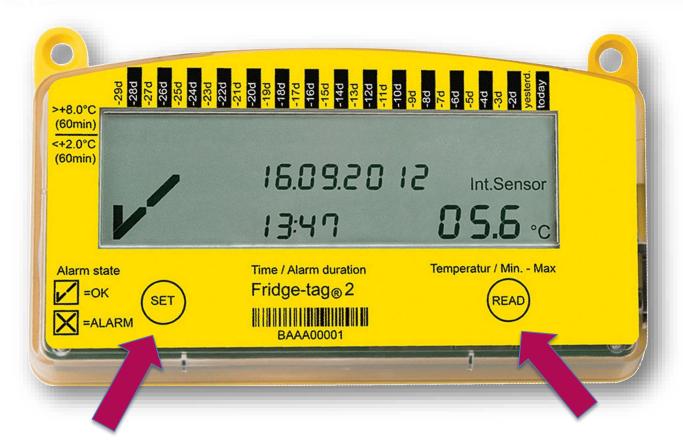


Step 4: Made a mistake?

Need to change date/ time/ °C to °F?

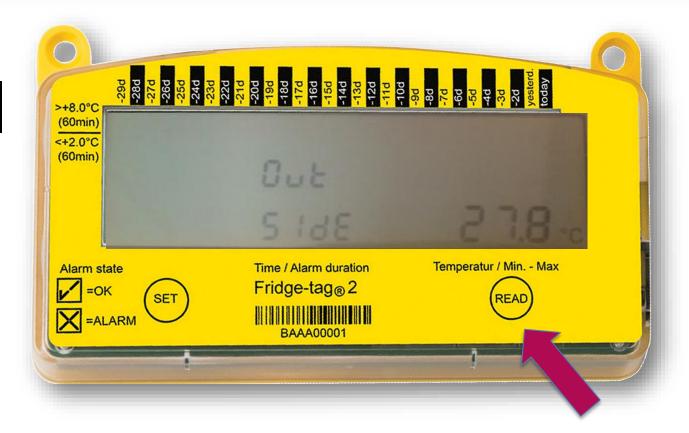


press SET & READ together: quick





Then Press READ: change to Set date





Then Press SET: enter date/time change





Date format again: press SET if ok

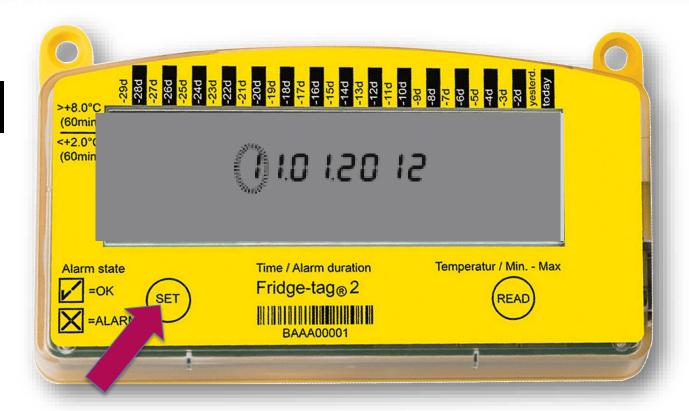
#4



If Day appears before Month, press READ to switch to USA format



Now use READ to scroll thru #'s to



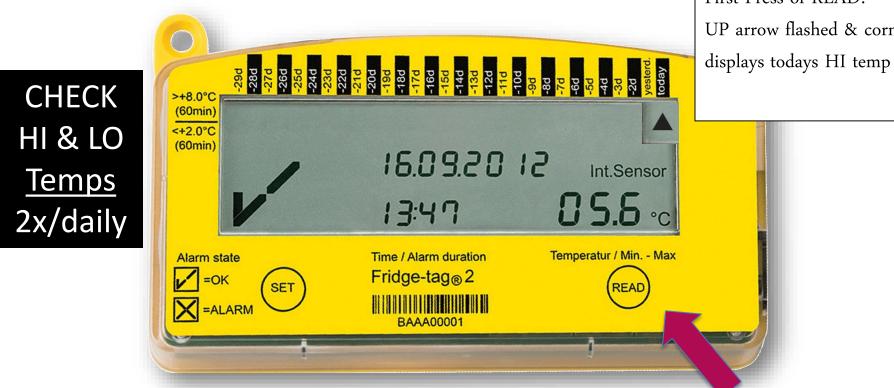








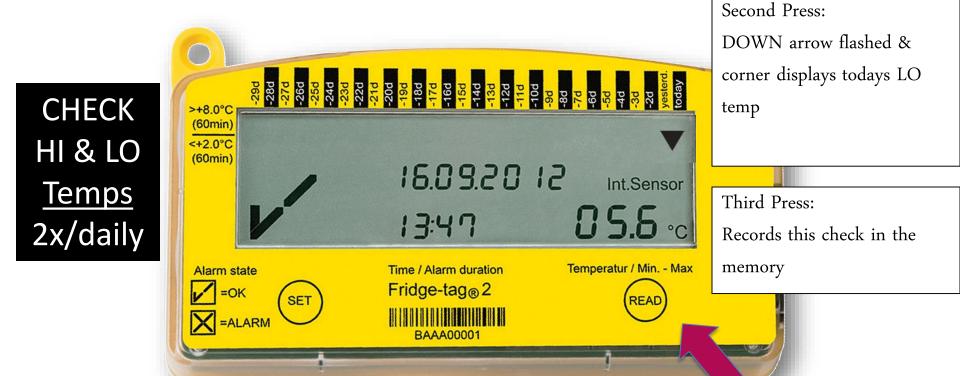




First Press of READ:

UP arrow flashed & corner







Record of daily checks appears in

				Lower alarm	limit		_
No.	Date	Events*	Average	Status	Min.	Duration	Α
	(dd.MM.yyyy)		temp.		temp.	out of	tr
						range	ti
1	Today		+21.8°C	In progress	+21.3°C	Omin	土
2	28.02.2013	Am/pm	+23.1°C	ok	+21.7°C	Omin	Т
3	27.02.2013	Am/pm	+22.9°C	ok	+21.3°C	Omin	\top
4	26.02.2013	**/pm	+21.6°C	ok	+20.1°C	Omin	\top
5	25.02.2013		+21.3°C	ok	+19.9°C	Omin	Т
S	24 02 2013		±21 0°C	ok	±20 5°C	∩min	\top

Blank = not checked

Am = morning checked

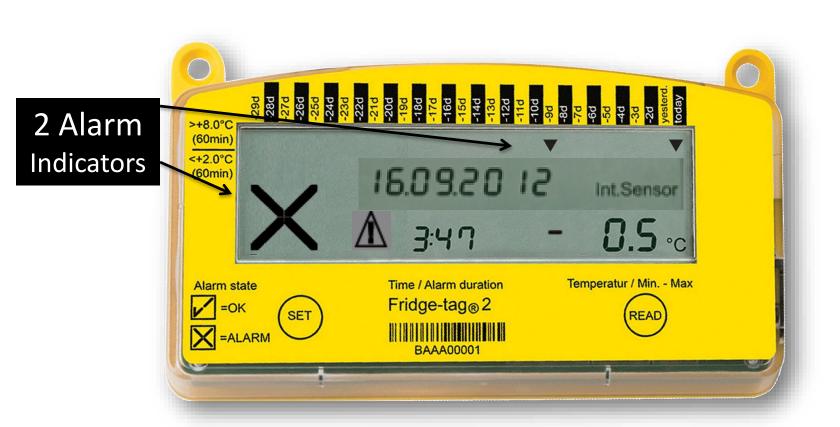
Pm = afternoon checked



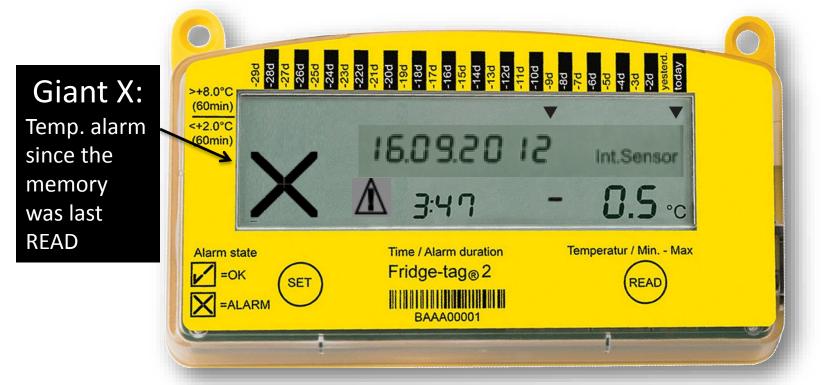
Managing the Big X – if you have an

What if there is an alarm?







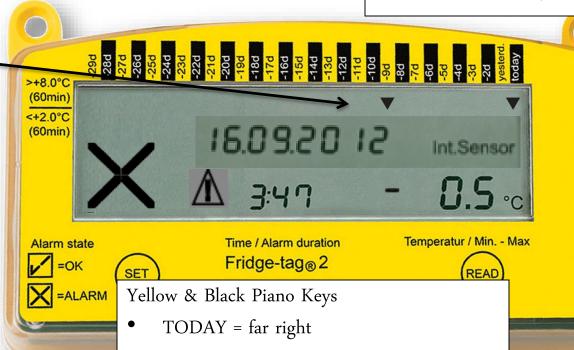




UP & DOWN Arrows:

- Up arrow = HI temp
- Down = LO temp
- Place = which day?

Which day or days were alarms observed?



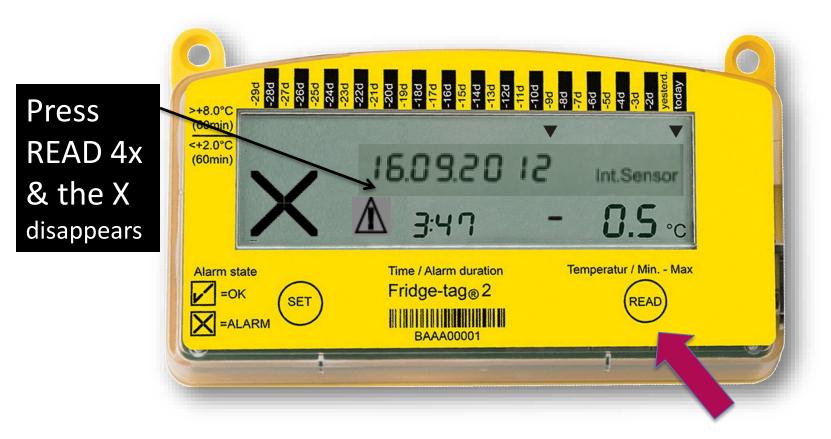
YESTERDAY = next key

-2d = 2 days ago, etc

See past 30 days easily

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Getting rid of the X & reading alarm info

When an alarm happens Press READ to see what has happened

This will CLEAR the X



Getting rid of the X & reading alarm info

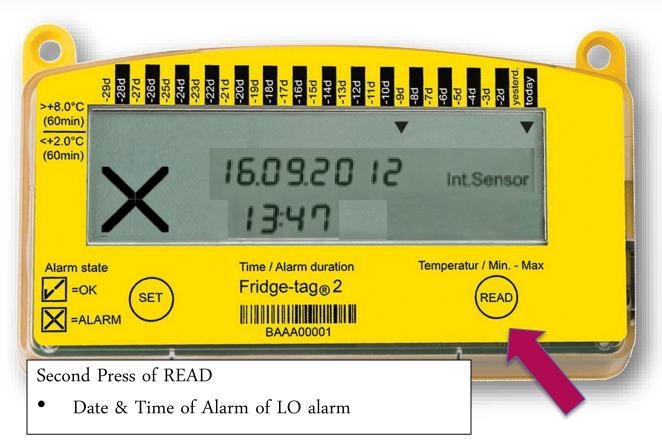
If Down Arrow = LO alarm



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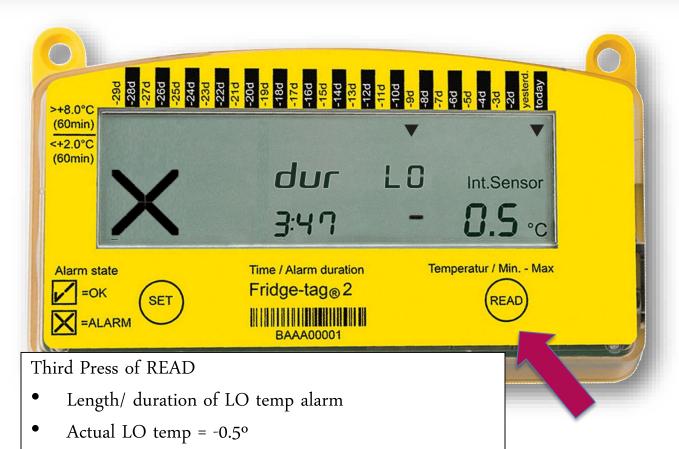


Getting rid of the X & reading alarm info



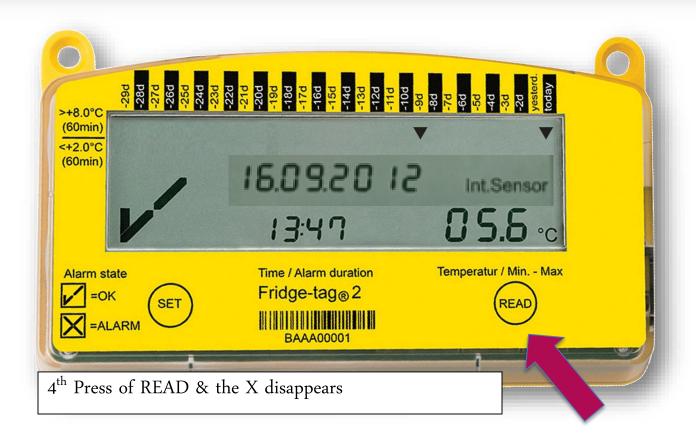


Getting rid of the X & reading alarm info



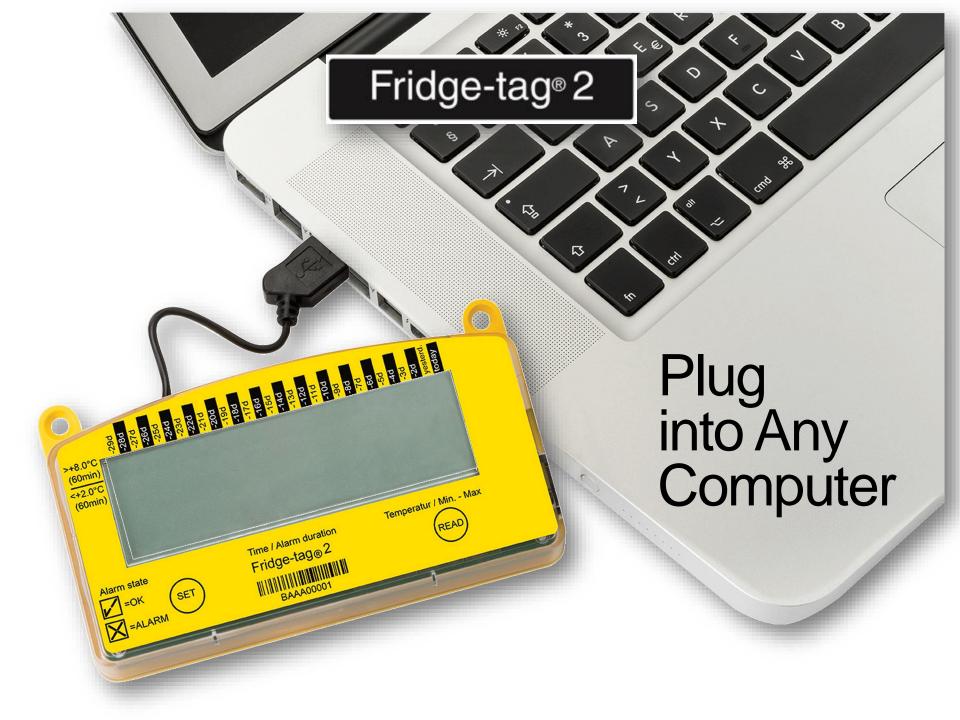


Getting rid of the X & reading alarm info

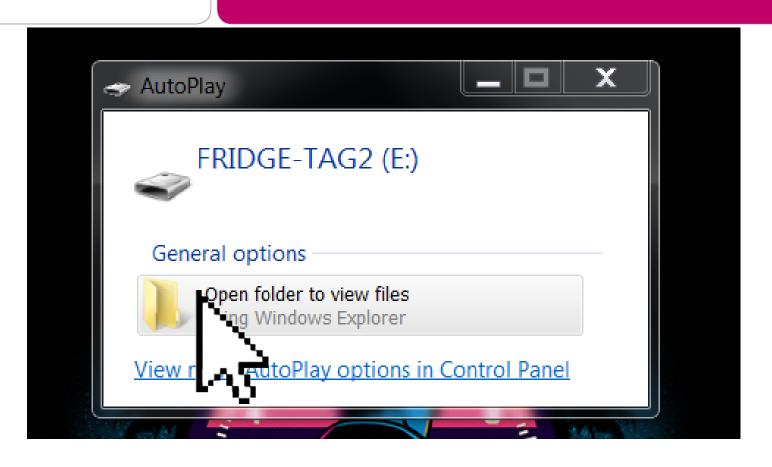




Download the report



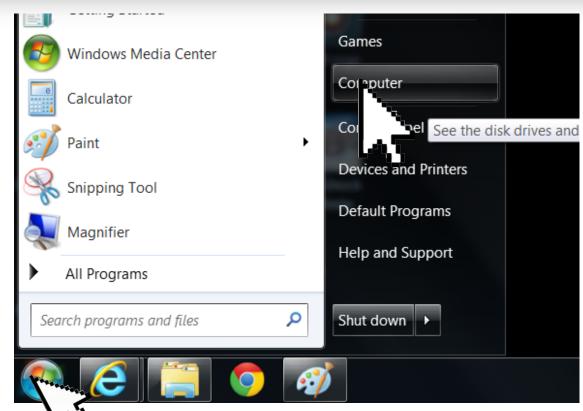




Click on Folder Like Any Removable Memory Stick



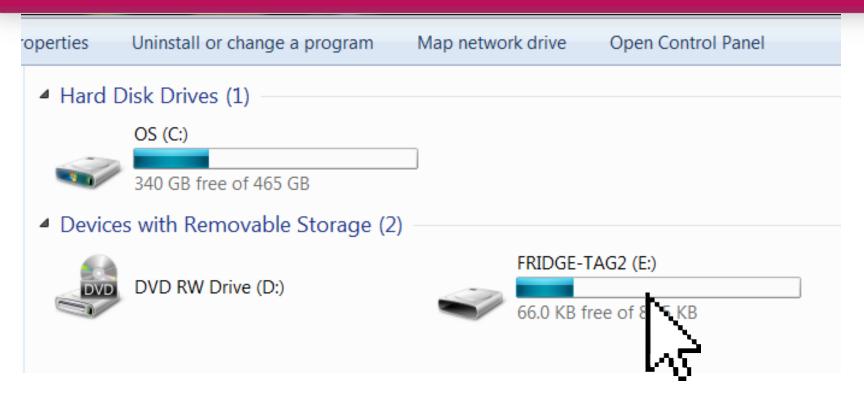
If the folder does not pop on the screen



Click the Window START – then Computer



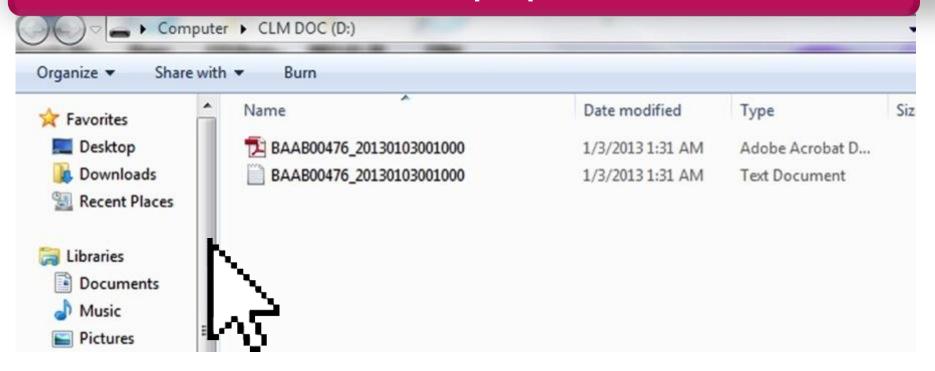
If the folder does not pop on the screen



And Click on the Fridge-tag2



If the folder does not pop on the screen



Then Click the PDF



PDF document of the Fridge-tag® 2

Identification number: BBBA00073

Date and time of report creation: 03/31/2014 08:07h

Upper alarm limit: Above +8ºC for 60 min
Lower alarm limit: Below +2ºC for 15 min

									E								
_				Lower alarm	limit				Upper al	arm limit				error			
No	Date	Events*	Average	Status	Min	Duration	Alarm	Alarm	Status	Max Temp.	Duration	Alarm	Alarm	Status	Duration	Alarm	Signature/notes
	(mm.dd.yyyy)		temp.		temp.	out of	trigger	ambient			out of	trigger	ambient			trigger	
						range	time	temp.			range	time	temp.			time	
1	Today	am	+4.6	In progress	+3.6				ОК	+5.5				In progress			
2	3/30/14		+4.6	ok	+3.6				ОК	+5.6				ok			
3	3/29/14	am,pm	+3.7	ok	+2.9				ОК	+4.5				ok			
4	3/28/14	am,pm	+3.2	ok	+2.3				ОК	+4.1				ok			
5	3/27/14	am,pm	+3.3	ok	+2.5				ОК	+4.1				ok			
6	3/26/14	am,pm	+2.8	ALARM	+1.7	1h 15 min	18:30	+25.3	ОК	+3.8				ok	2min		
7	3/25/14	am,pm	+5.4	ok	+4.1				ОК	+6.6				ok			
8	3/24/14	am,pm	+5.6	ok	+4.4				ОК	+6.7				ok	3min		
9	3/23/14		+5.5	ok	+4.0				ОК	+6.9				ok			
10	3/22/14	am,pm	+5.7	ok	+4.3				ОК	+7.0				ok			
11	3/21/14	am,pm	+5.8	ok	+4.3				ОК	+7.2				ok			
12	3/20/14	am,pm	+5.8	ok	+4.1				ОК	+7.4				ok			
13	3/19/14	am,pm	+5.7	ok	+3.9				ОК	+7.5				ok			
14	3/18/14	am,pm	+5.8	ok	+3.9				ОК	+7.7				ok			
15	3/17/14	am,pm	+7.1	ok	+3.7				ALARM	+12.0	3h 52 min	19:12	+23.7	ok	4min		

Sample Monthly Report

2 Year Calibration

Identification number:

Activation Date:

Date and time of report creation:

Upper alarm limit:

Lower alarm limit:

BBBA00073

1/15/14

03/31/2014 08:07h

Above +8ºC for 60 min

Below +2ºC for 15 min

				Lower alarm	limit	
No	Date	Events*	Average	Status	Min	Du
	(mm.dd.yyyy)		temp.		temp.	ou
						rar
1	Today	am	+4.6	In progress	+3.6	
2	3/30/14		+4.6	ok	+3.6	
3	3/29/14	am,pm	+3.7	ok	+2.9	
4	3/28/14	am,pm	+3.2	k	+2.3	
5	3/27/14	am,pm	+3.3	k	+2.5	
6	3/26/14	am,pm	+2.8	ALARM	+1.7	1 h
	2/25/0		E A	1	4.4	

Tracks when READ button is pressed: 2x day temp. checks

				/								
					Lower alarm	limit				Upper alarm limit		
No	Date	Events*	Avera	ar e	Status	Min	Dui	ition	Alarm	<mark>/.</mark> larm	Status	Max Temp. [
	(mm.dd.yyyy)		temp			temp.	out	f	trigger	ambient) _c
							rang	5 <mark>6</mark>	time	temp.		1
1	Today	am		4.6	In progress	+3.6					OK	+5.5
2	3/30/14			4.6	ok	+3.6					OK	+5.6
3	3/29/14	am,pm	,	3.7	ok	+2.9					OK	+4.5
4	3/28/14	am,pm	-	3.2	OK	+2.3					OK	+4.1
5	3/27/14	am,pm		+3 3	ok	+2.5					OK	+4.1
6	3/26/14	am,pm	+	+2.۷	ALARM	+1.7	11/1	5 min	18:30	+25.3	Oh	+7.8
7	2/25/1/	am nm		5 /	ماد	1/1/1					01	16.6

lr.,	••		
Ext. sensor	connection	n error	
Status	Duration	Alarm trigger time	Signature) notes
In progress			
ok	2min		
ok			
ok	3min		
ok			

PDF document of the Fridge-tag® 2

Identification number:BBBA00073Date and time of report creation:03/31/201408:07h

Upper alarm limit: Above +8°C for 60 min
Lower alarm limit: Below +2°C for 15 min

				Lower alarm l	limit				Upper al	arm limit			Ext. sensor connection error				
No	Date	Events*	Average	Status	Min	Duration	Alarm	Alarm	Status	Max Temp.	Duration	Alarm	Alarm	Status	Duration	Alarm	Signature/notes
	(mm.dd.yyyy)		temp.		temp.	out of	trigger	ambient			out of	trigger	ambient			trigger	
						range	time	temp.			range	time	temp.			time	
	Today	am	+4.6	In progress	+3.6				ОК	+5.5				In progress			
	3/30/14		+4.6	ok	+3.6				OK	+5.6				ok			
	3/29/14	am,pm	+3.7	ok	+2.9				OK	+4.5				ok			
	3/28/14	am,pm	+3.2	ok	+2.3				ОК	+4.1				ok			
	3/27/14	am,pm	+3.3	ok	+2.5				OK	+4.1				ok			
	3/26/14	am,pm	+2.8	ALARM	+1.7	1h 15 min	18:30	+25.3	ОК	+3.8				ok	2min		
	3/25/14	am,pm	+5.4	ok	+4.1				ОК	+6.6				ok			
	3/24/14	am,pm	+5.6	ok	+4.4				OK	+6.7				ok	3min		
	3/23/14		+5.5	ok	+4.0				ОК	+6.9				ok			
1	3/22/14	am,pm	+5.7	ok	+4.3				ОК	+7.0				ok			
1	3/21/14	am,pm	+5.8	ok	+4.3				OK	+7.2				ok			
1	3/20/14	am,pm	+5.8	ok	+4.1				ОК	+7.4				ok			
1	3/19/14	am,pm	+5.7	ok	+3.9				ОК	+7.5				ok			
1	3/18/14	am,pm	+5.8	ok	+3.9				ОК	+7.7				ok			
1	3/17/14	am,pm	+7.1	ok	+3.7				ALARM	+12.0	3h 52 min	19:12	+23.7	ok	4min		

Sample Monthly Report

The Report Can Be... PRINTED **EMAILED FILED** ARCHIVED



Fridge-tag® 2: Resources



Fridge-tag® 2: Resources

Website: www.berlingerusa.com/f2support

- User manual -
- Set up videos
- This power point
- Set up instructions
- Help line:
 - 508-366-0084
 - <u>Info.us@berlinger.ch</u>



Open for new perspectives!





Questions?

222 Turnpike Road

Suite 3

Westborough, MA 01581

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Patrick McGrath General Manager 508-366-0084

Info.us@berlinger.ch